

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:)
KATSUO KUMAGAI, ET AL.)
Serial No. 10/629,117) Art Unit: 1623
Filed: July 28, 2003) Examiner: G. Krishnan
For: THERAPEUTIC AGENT FOR MASTITIS OF)
LIVESTOCK AND METHOD FOR)
TREATING MASTITIS USING THE)
SAME AGENT)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
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Elena S. Polovnikova, Ph.D. - Reg. No. 52,130

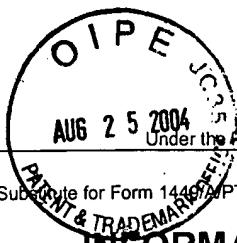
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Respectfully submitted,



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Sheet 1 of 2

Complete if Known	
Application Number	10/629,117
Filing Date	July 28, 2003
First Named Inventor	KATSUO KUMAGAI
Group Art Unit	1623
Examiner Name	G. Krishnan
Attorney Docket Number	44471/288235

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

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Application Number	10/629,117
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First Named Inventor	KATSUO KUMAGAI
Group Art Unit	1623
Examiner Name	G. Krishnan

Attorney Docket Number 44471/288235

OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
5	Fujisawa, Yumiko, <i>et al.</i> , "Glycyrrhizin Inhibits the Lytic Pathway of Complement – Possible Mechanism of Its Anti-Inflammatory Effect on Liver Cells in Viral Hepatitis," <i>Microbiol. Immunol.</i> , Vol. 44, No. 9, pp. 799-804 (2000)		
6	Fukai, Toshio, <i>et al.</i> , "Cytotoxic Activity of Low Molecular Weight Polyphenols against Human Oral Tumor Cell Lines," <i>Anticancer Research</i> , Vol. 20, pp. 2525-2536 (2000)		
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8	Kai, Kenzo, <i>et al.</i> , "Anti-inflammatory effects of Intramammary Infusions of Glycyrrhizin in Lactating Cows with Mastitis Caused by Coagulase-negative Staphylococci, <i>AJVR</i> , Vol. 64, No. 10, pp. 1213-1220 (2003)		
9	Mishima, Mathiro et al., "Studies on glycyrrhetic acid and its derivatives as nasal absorption promoter of insulin," <i>Drug Delivery System</i> , p. 88.		
10	Okada, Kenzo, <i>et al.</i> , "Identification of Antimicrobial and Antioxidant Constituents from Licorice of Rusian and Xhijiang Origin, <i>Chem. Pharm. Bull.</i> , Vol. 37, No. 9, pp. 2528-2530 (1989)		
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12	Suzuki, H., <i>et al.</i> , "Effects of Glycyrrhizin on Biochemical Tests in Patients with Chronic Hepatitis," <i>Asian Med. J.</i> , Vol. 26, No. 7, pp. 423-438.		
13	Utsunomiya, Tokuichiro <i>et al.</i> , "Glycyrrhizin (20 β -carboxy-11-oxo-30-norolean-12-en-3 β -yl-2-O- β -D-glucopyranuronosyl- α -D-glucopyranosiduronic acid) improves the resistance of thermally injured mice to opportunistic infection of herpes simplex virus type 1," <i>Immunology Letters</i> , Vol. 44, pp. 59-66 (1995)		

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